

Code No.: AI513PE

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
III-B.TECH-I-Semester End Examinations (Supply) - June- 2024
NATURAL LANGUAGE PROCESSING
(CSM)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

PART-A

(20 Marks)

1. a) State various applications of NLP in real life. [2M]
- b) Define document in NLP with an example. [2M]
- c) Write about shift-reduce parsing. [2M]
- d) What is Morphology? [2M]
- e) Explain about Word sense. [2M]
- f) What is the difference between semantic and syntactic information? [2M]
- g) Define Predicate Logic. [2M]
- h) Explain about Representation in NLP. [2M]
- i) Differentiate between Bigram and Trigram. [2M]
- j) Explain any two applications of Language modeling. [2M]

PART-B

(50 Marks)

- 2.a) Explain about words and their components. [5M]
 - b) Discuss about the issues and challenges in morphological modelling. [5M]
- OR**
3. Discuss about the various processing stages involved in identifying the structure of the document. [10M]
 4. Explain about the models for ambiguity resolution in parsing. [10M]
- OR**
5. Describe about syntax tree. Explain an example with parts of speech tagging. [10M]
 6. Write a note on:
 - a) Entity & event registration. [5M]
 - b) Semantic parsing. [5M]
- OR**
7. List the softwares associated with Semantic Interpretation and explain about them. [10M]
 8. Explain in detail about predicate argument structure with NLP. [10M]
- OR**
9. Write a detail note on Meaning Representation Systems. [10M]
 10. Describe about Cohension and Reference Resolution. [10M]
- OR**
11. Explain about N-gram Model and its Structure. [10M]
